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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,552	01/27/2004	Dong-Keon Kong	46235	9586

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EXAMINER

PEACHES, RANDY

ART UNIT	PAPER NUMBER
2686	

DATE MAILED: 10/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/764,552	Applicant(s) KONG ET AL.	
	Examiner Randy Peaches	Art Unit 2686	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

Specification

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. **Claims 1-18** are rejected under 35 U.S.C. 102(e) as being anticipated by Rezaiifar et al. (U.S. Patent Publication Number 2004/0120283 A1).

Regarding **claims 1 and 12**, Rezaiifar et al. discloses a method of paging in a wireless communication system (250), which reads on claimed "mobile communication systems," hereinafter referenced mobile communication systems the method comprising the steps of:

- a mobile station (MS-268), which reads on claimed "mobile terminal," transmitting a location registration message to a said wireless communication system (250) via the Base Transceiver Station (BTS-x 266) and the BSC_264. See paragraph [0065];
- the said wireless communication system (250) transmitting location information to a heterogeneous mobile communication system, hereinafter referenced as networks "heterogeneous mobile communication system 260 and 270", See FIGURE 6 and 7, which includes a Mobile Switching Center (MSC_1262).

Rezaiifar et al. inherently provides support for the registering of the said MS in a respected network, as evidenced by the fact that one of ordinary skill in the art would have recognized the that referenced MS, as disclosed in paragraph [0067] that the said MS is performing a registering process with the network which included the sending of the respected information required for a successful registration.

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- heterogeneous mobile communication system 260 and 270 requesting the said wireless communication system (250) to page the said mobile station according to the received information. See paragraph [0065]; and
- the mobile communication system paging the said mobile station. See paragraph [0065].

Regarding **claim 2**, according to **claim 1**, Rezaiifar et al. continues to disclose wherein a step of the heterogeneous mobile communication system 260 and 270 setting up a packet data call with the mobile terminal and the heterogeneous mobile communication system 260 and 270 providing the mobile station with packet data service. See paragraph [0065].

Regarding **claims 3 and 14**, according to **claims 1 and 12**, Rezaiifar et al. continues to disclose wherein the mobile communication system provides voice service and packet data service (HRPD) and the heterogeneous mobile communication system 260 and 270, wherein the said heterogeneous network can support either CDMA 2000 or IS 856 only, which reads on claimed "provides packet data service." See paragraph [0065-0066]

Regarding **claims 4 and 13**, according to **claims 1 and 12**, Rezaiifar et al. continues to disclose wherein the location information further includes a first identifier, which includes the sector id, 32-bit RAND or UATI. See paragraph [0044 and 0068-0069].

Regarding **claims 5 and 17**, according to **claims 4 and 13**, Rezaiifar et al. continues to disclose wherein a step of the heterogeneous mobile communication system registering the first identifier and the location information. See paragraphs [0044 and 0071].

Regarding **claims 6 and 18**, according to **claims 5 and 13**, Rezaiifar et al. continues to disclose wherein the heterogeneous mobile communication system changes the first identifier to a second identifier which is randomly generated to identify the mobile terminal. See paragraph [0069 and 0044].

Regarding **claims 7 and 15**, according to **claims 1 and 12**, Rezaiifar et al. continues to disclose wherein the location registration message further includes information, wherein Rezaiifar et al. teaches in paragraph [0066] of the use of a hybrid protocol by providing communication through both the circuit-switched networks and a packet-switched network, in order to determine whether or not the heterogeneous mobile communication system registers the location information of the mobile terminal. See paragraphs [006 and 0067].

Regarding **claim 8**, Rezaiifar et al. discloses a method of cross-paging from wireless communication system (250) to a mobile station, the method comprising the steps of:

- determining whether the said mobile station has been location-registered in the wireless communication system (250) or in heterogeneous mobile

communication system 260 and 270, see paragraph [0069] with reference to pre-registered location information of the said mobile station when paging request of the mobile terminal occurs in the said heterogeneous mobile communication system 260 and 270. See paragraph [0044 and 0074];

- transmitting a cross-paging message from the said heterogeneous mobile communication system 260 and 270 to the mobile communication system if the mobile terminal has been location-registered in the mobile communication system. See paragraph [0049 and 0076-0078]; and
- transmitting a paging message to the mobile terminal in response to the cross-paging message in the mobile communication system. See paragraph [0065].

Regarding **claim 9**, according to **claim 8**, Rezaiifar et al. continues to disclose wherein the heterogeneous mobile communication system determines that the mobile terminal has been location-registered in the mobile communication system if a pre-registered identifier is a first identifier for identification in the mobile communication system, and that the mobile terminal has been location-registered in the mobile communication system if a pre-registered identifier is a second identifier for identification in the heterogeneous mobile communication system. See paragraphs [0044 and 0047]

Regarding **claim 10**, according to **claim 8**, Rezaiifar et al. continues to disclose wherein the cross-paging message includes information for requesting that a data call is set up with the heterogeneous mobile communication system 260 and 270. See paragraphs

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[0066].

Regarding **claim 11**, according to **claim 8**, Rezaiifar et al. continues to disclose wherein the mobile communication system provides voice service and packet data service and the heterogeneous mobile communication system 260 and 270 provides packet data service. See paragraphs [0065 – 0066].

Regarding **claim 16**, according to **claim 12**, Rezaiifar et al. continues to disclose wherein the mobile communication system pages to the mobile terminal. See paragraph [0065].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy Peaches whose telephone number is (571) 272-7914. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Marsha D Banks-Harold
MARSHA D. BANKS-HAROLD
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Randy Peaches
September 21, 2005